Class B Biosolids Report 2014

ANALYTICAL PARAMETER	BIOSOLIDS CONCENTRATION DRY WEIGHT (MG/KG)	CLASS A 503 LIMITS**	UNITS
Arsenic	6.52	75	mg/kg
Cadmium	0.00	85	mg/kg
Chromium	39.3	N/A	mg/kg
Copper	466	4300	mg/kg
Lead	10.2	840	mg/kg
Mercury	0.11	57	mg/kg
Molybdenum	10.4	75	mg/kg
Nickel	19.7	420	mg/kg
Potassium	8592	N/A	mg/kg
Selenium	6.63	100	mg/kg
Zinc	590	7500	mg/kg
pН	6.33	N/A	units
Total Solids (TS)	966000	N/A	mg/kg
Ammonia-N	10352	N/A	mg/kg
Nitrate as N	8.18	N/A	mg/kg
Total Kjeldahl Nitrogen	52795	N/A	mg/kg
Total Phosphorus	31056	N/A	mg/kg
Fecal Coliform Assay*	118	<2.0X10 ⁶	MPN / g

All data reported on a dry weight basis

* Geometric mean for assay data

** Ceiling concentrations for metals limits

N/A - Sludge limit is not applicable to class B specifications.



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309 Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

ELAP Certificates 1551, 2728, and 2922

21 August 2014

Tracy, City of - Water Treatment Plant

Attn: Erich Delmas 3900 Holly Drive Tracy, CA 95304

RE: WWTP Sludge Drying Beds

Work Order: 14H0430

Enclosed are the results of analyses for samples received by the laboratory on 08/06/14 21:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For David S. Pingatore

Jeanette Popli

Project Manager



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309 Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment Plant

Project Manager: Erich Delmas

Reported:

Tracy CA, 95304 3900 Holly Drive Project: WWTP Sludge Drying Beds

Project Number: [none]

08/21/14 16:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Composite Drying Beds	14H0430-01	Soil	08/06/14 11:04	08/06/14 21:45
S3	14H0430-02	Soil	08/06/14 11:08	08/06/14 21:45
S4	14H0430-03	Soil	08/06/14 11:06	08/06/14 21:45
S5	14H0430-04	Soil	08/06/14 11:05	08/06/14 21:45
S6	14H0430-05	Soil	08/06/14 11:02	08/06/14 21:45
N4	14H0430-06	Soil	08/06/14 11:18	08/06/14 21:45
N5	14H0430-07	Soil	08/06/14 11:17	08/06/14 21:45
N6	14H0430-08	Soil	08/06/14 11:16	08/06/14 21:45



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309
Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment Plant Tracy CA, 95304

3900 Holly Drive

Project Manager: Erich Delmas

Project: WWTP Sludge Drying Beds Project Number: [none] Reported: 08/21/14 16:15

Metals by EPA 6000/7000 Series Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	RL	ML	Units	Dilutio	n Batch	Prepared	Analyzed	Method	Analyst	Notes
Composite Drying Beds (14H0430-01) So	il Sam _l	oled: 08/0	6/14 11:04	Rece	ived: 08	3/06/14 2	21:45	-	•		-	
Arsenic	6.3	0.40	2.0	2.0	mg/kg	1	AH41336	08/13/14 09:31	08/13/14 16:05	EPA 6010B	MAM	
Cadmium	ND	7.0	100	1.0	"	100	"	"	08/14/14 11:04	"	"	U
Chromium	38	0.090	5.0	5.0	"	1	"	"	08/13/14 16:05	"	"	
Copper	450	0.20	10	10	"	"	"	"	"	"	"	
Lead	9.9	0.10	5.0	5.0	"	"	"	"	"	"	"	
Mercury	0.11	0.020	0.20	0.20	"	"	AH41427	08/15/14 10:14	08/18/14 15:29	EPA 7471A	JJM	J
Molybdenum	10	0.050	10	10	"	"	AH41336	08/13/14 09:31	08/13/14 16:05	EPA 6010B	MAM	
Nickel	19	0.20	10	10	"	"	"	"	"	"	"	
Phosphorus	30000	300	5000	50	"	100	"	"	08/14/14 11:04	"	"	
Potassium	8300	2.0	50	50	"	1	"	"	08/13/14 16:05	"	"	
Selenium	6.4	0.70	2.0	2.0	"	"	"	"	"	"	"	
Zinc	570	0.40	10	10	"	"	"	"	"	"	"	



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309
Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment Plant

Project Manager: Erich Delmas

Tracy CA, 95304 3900 Holly Drive Project: WWTP Sludge Drying Beds

Project Number: [none]

Reported: 08/21/14 16:15

Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	RL	ML	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
Composite Drying Beds (14H0430-01		pled: 08/0						Trepared	7 maryzea	Wellou	rinaryst	110103
Composite Drying Deus (14110430-0	i j Son Sam	picu. 00/0	0/17 11.0	7 1100	.iv.u. 00	/00/14 2	1.73					
% Solids	96.6	0.100	0.100	0.100	%	1	AH42024	08/20/14 07:13	08/21/14 12:40	EPA 160.3	AEA	
Ammonia as N	10000	2.0	2.0	2.0	mg/kg	"	AH41849	08/19/14 08:00	08/19/14 12:00	SM4500NH3C	EV	
Biochemical Oxygen Demand	34000	2.0	5.0	5.0	"	"	AH41410	08/08/14 08:00	08/13/14 15:00	SM5210B	AEA	
рН	6.33	1.68	1.68	1.68	pH Units	"	AH41127	08/11/14 08:50	08/11/14 08:51	EPA 9045C	TLH	
Total Kjeldahl Nitrogen	51000	2.0	10	10	mg/kg	"	AH41403	08/14/14 07:07	08/18/14 09:03	SM4500-Norg B	SMS	



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309 Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment Plant

Project Manager: Erich Delmas

Reported:

Tracy CA, 95304 3900 Holly Drive Project: WWTP Sludge Drying Beds

Project Number: [none]

08/21/14 16:15

Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	RL	ML	Units	Dilution	n Batch	Prepared	Analyzed	Method	Analyst	Notes
Composite Drying Beds (14H0430-01) Soil	il Samp	oled: 08/06	/14 11:04	Rece	ived: 08	8/06/14 2	1:45					
Nitrate as N	7.9	0.40	2.0	2.0	mg/kg	1	AH41862	08/18/14 16:54	08/19/14 04:40	EPA 300.0	SMP	_



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309
Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment Plant Project Manager: Erich Delmas

Tracy CA, 95304 Project: WWTP Sludge Drying Beds Reported: 3900 Holly Drive Project Number: [none] 08/21/14 16:15

Microbiological Parameters by APHA Standard Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL RL	ML	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
S3 (14H0430-02) Soil	Sampled: 08/06/14 11:08	Received: 08/06	/14 21:45								
Total Coliforms	4.5	1.8	1.8	MPN/100 mL) 1 .	AH41231	08/07/14 11:00	08/11/14 11:00	SM9221	ZMH	
Fecal Coliforms	ND	1.8	1.8		"	"	"	"	"	"	U
S4 (14H0430-03) Soil	Sampled: 08/06/14 11:06	Received: 08/06	/14 21:45								
Total Coliforms	> 1600000	1.8	1.8	MPN/100 mL) 1 .	AH41231	08/07/14 11:00	08/09/14 13:00	SM9221	TCA	
Fecal Coliforms	1600000	1.8	1.8		"	"	"	"	"	"	
S5 (14H0430-04) Soil	Sampled: 08/06/14 11:05	Received: 08/06	/14 21:45								
Total Coliforms	14000	1.8	1.8	MPN/100) 1 .	AH41231	08/07/14 11:00	08/11/14 11:00	SM9221	ZMH	
Fecal Coliforms	11000	1.8	1.8	mL "	"	"	"	"	"	"	
S6 (14H0430-05) Soil	Sampled: 08/06/14 11:02	Received: 08/06	/14 21:45								
Total Coliforms	40000	1.8	1.8	MPN/100) 1 .	AH41231	08/07/14 11:00	08/10/14 13:45	SM9221	AEA	
Fecal Coliforms	18000	1.8	1.8	mL "	"	"	"	"	"	"	
N4 (14H0430-06) Soil	Sampled: 08/06/14 11:18	Received: 08/06	/14 21:45								
Total Coliforms	2.3	1.8	1.8	MPN/100) 1 .	AH41231	08/07/14 11:00	08/11/14 11:00	SM9221	ZMH	
Fecal Coliforms	ND	1.8	1.8	mL "	"	"	"	"	"	"	U
N5 (14H0430-07) Soil	Sampled: 08/06/14 11:17	Received: 08/06	/14 21:45								
Total Coliforms	12	1.8	1.8	MPN/100 mL) 1 .	AH41231	08/07/14 11:00	08/10/14 13:45	SM9221	AEA	
Fecal Coliforms	ND	1.8	1.8		"	"	"	"	"	"	U
N6 (14H0430-08) Soil	Sampled: 08/06/14 11:16	Received: 08/06	/14 21:45								
Total Coliforms	2.3	1.8	1.8	MPN/100 mL) 1 .	AH41231	08/07/14 11:00	08/11/14 11:00	SM9221	ZMH	
Fecal Coliforms	ND	1.8	1.8		"	"	"	"	"	"	U



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309
Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment Plant Project Manager: Erich Delmas

Tracy CA, 95304 Project: WWTP Sludge Drying Beds Reported: 3900 Holly Drive Project Number: [none] 08/21/14 16:15

Volatile Organic Compounds by EPA Method 8260B Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	RL	ML	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
Composite Drying Beds (14H0430-0												R-06
Acetone	ND	0.083	0.69	0.0040	mg/kg		AH41149	08/11/14 14:46	08/11/14 23:38	EDA 9260D	NBH	U
Benzene	ND	0.0069	0.17	0.0040	mg/kg	1/3.2 F	М П41149	08/11/14 14.46	06/11/14 23.36	EFA 8200D	NDII	U
Bromobenzene	ND	0.010	0.17	0.0010	"	,,		,,	"	"	,,	U
Bromochloromethane	ND	0.0069	0.17	0.0010	"	,,		,,	"	"	,,	U
Bromodichloromethane	ND	0.0069	0.17	0.0010	"	"		"	"	"	,,	U
Bromoform	ND	0.0069	0.17	0.0010	"	"		,,	"	"	"	U
Bromomethane	ND	0.010	0.17	0.0010	"	"		,,	"	"	"	U
n-Butylbenzene	ND	0.0069	0.17	0.0010	"	"		"	"	"	"	U
sec-Butylbenzene	ND	0.0069	0.17	0.0010	"	"		"	"	"	"	U
tert-Butylbenzene	ND	0.0035	0.17	0.0010	"	"		,,	"	"	"	U
Carbon tetrachloride	ND	0.0069	0.17	0.0010	"	"		,,	"	"	"	U
Chlorobenzene	ND	0.0069	0.17	0.0010	"	"		"	"	"	"	U
Chloroethane	ND	0.010	0.17	0.0010	"	"		,,	"	"	"	U
Chloroform	ND	0.0069	0.17	0.0010	"	"		,,	"	"	"	U
Chloromethane	ND	0.010	0.17	0.0010	"	"		,,	"	"	"	U
2-Chlorotoluene	ND	0.0069	0.17	0.0010	"	"		,,	"	"	"	U
4-Chlorotoluene	ND	0.0035	0.17	0.0010	"	"	"		"	"	"	U
Dibromochloromethane	ND	0.0035	0.17	0.0010	"	"	"		"	"	"	U
1,2-Dibromo-3-chloropropane	ND	0.014	0.17	0.0010	"	"	"		"	"	"	U
1,2-Dibromoethane (EDB)	ND	0.0069	0.17	0.0010	"	"	"		"	"	"	U
Dibromomethane	ND	0.0069	0.17	0.0010	"	"		"	"	"	"	U
1,2-Dichlorobenzene	ND	0.0069	0.17	0.0010	"	"		"	"	"	"	U
1,3-Dichlorobenzene	ND	0.0069	0.17	0.0010	"	"		"	"	"	"	U
1,4-Dichlorobenzene	ND	0.0069	0.17	0.0010	"	"		"	"	"	"	U
Dichlorodifluoromethane	ND	0.010	0.17	0.0010	"	"	"	"	"	"	"	U
1,1-Dichloroethane	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
1,2-Dichloroethane	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
1,1-Dichloroethene	ND	0.0035	0.17	0.0010	"	"	"	"	"	"	"	U
cis-1,2-Dichloroethene	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
trans-1,2-Dichloroethene	ND	0.021	0.17	0.0010	"	"	"	"	"	"	"	U
1,2-Dichloropropane	ND	0.0035	0.17	0.0010	"	"	"	"	"	"	"	U
1,3-Dichloropropane	ND	0.0069	0.17	0.0010	"	"		"	"	"	"	U

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309
Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment Plant Project Manager: Erich Delmas

Tracy CA, 95304 Project: WWTP Sludge Drying Beds Reported: 3900 Holly Drive Project Number: [none] 08/21/14 16:15

Volatile Organic Compounds by EPA Method 8260B Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	RL	ML	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
Composite Drying Beds (14H0430-01) Soil	Sam	pled: 08/0	6/14 11:0	4 Rece	ived: 08	/06/14 21	:45	•				R-06
2,2-Dichloropropane	ND	0.010	0.17	0.0010	mg/kg	173.2 A	AH41149	08/11/14 14:46	08/11/14 23:38	EPA 8260B	"	U
1,1-Dichloropropene	ND	0.010	0.17	0.0010	"	"	"	"	"	"	"	U
cis-1,3-Dichloropropene	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
trans-1,3-Dichloropropene	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
Ethylbenzene	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
Hexachlorobutadiene	ND	0.010	0.17	0.0010	"	"	"	"	"	"	"	U
Isopropylbenzene	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
p-Isopropyltoluene	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
Methyl ethyl ketone	ND	0.042	0.52	0.0030	"	"	"	"	"	"	"	U
Methyl isobutyl ketone	ND	0.024	0.35	0.0020	"	"	"	"	"	"	"	U
Methyl tert-butyl ether	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
Methylene chloride	ND	0.014	0.17	0.0010	"	"	"	"	"	"	"	U
Naphthalene	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
n-Propylbenzene	ND	0.0035	0.17	0.0010	"	"	"	"	"	"	"	U
Styrene	ND	0.0035	0.17	0.0010	"	"	"	"	"	"	"	U
1,1,1,2-Tetrachloroethane	ND	0.0035	0.17	0.0010	"	"	"	"	"	"	"	U
1,1,2,2-Tetrachloroethane	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
Tetrachloroethene	ND	0.014	0.17	0.0010	"	"	"	"	"	"	"	U
Toluene	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
1,2,3-Trichlorobenzene	ND	0.010	0.17	0.0010	"	"	"	"	"	"	"	U
1,2,4-Trichlorobenzene	ND	0.010	0.17	0.0010	"	"	"	"	"	"	"	U
1,1,1-Trichloroethane	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
1,1,2-Trichloroethane	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
Trichloroethene	ND	0.010	0.17	0.0010	"	"	"	"	"	"	"	U
Trichlorofluoromethane	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
Trichlorotrifluoroethane	ND	0.014	0.17	0.0010	"	"	"	"	"	"	"	U
1,2,3-Trichloropropane	ND	0.0035	0.17	0.0010	"	"	"	"	"	"	"	U
1,2,4-Trimethylbenzene	ND	0.0035	0.17	0.0010	"	"	"	"	"	"	"	U
1,3,5-Trimethylbenzene	ND	0.0069	0.17	0.0010	"	"	"	"	"	"	"	U
Vinyl chloride	ND	0.010	0.17	0.0010	"	**	"	"	"	"	"	U
m,p-Xylene	ND	0.010	0.17	0.0010	"	**	"	"	"	"	"	U
o-Xylene	ND	0.0035	0.17	0.0010	"	"	"	"	"	"	"	U

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309
Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment Plant

Project Manager: Erich Delmas

Tracy CA, 95304 3900 Holly Drive Project: WWTP Sludge Drying Beds

Project Number: [none]

Reported: 08/21/14 16:15

Volatile Organic Compounds by EPA Method 8260B Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	RL	ML	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
Composite Drying Beds (14H0430-01) Soil	il Samj	pled: 08/06	5/14 11:0	04 Rece	ived: 08	/06/14 21:	45					R-06
Xylenes (total)	ND	0.010	0.17	0.0010	mg/kg	173.2 A	H41149	08/11/14 14:46	08/11/14 23:38	EPA 8260B	"	U
Surrogate: Bromofluorobenzene		139	%	38-163			"	"	"	"	"	
Surrogate: Dibromofluoromethane		130	%	39-154			"	"	"	"	"	
Surrogate: Toluene-d8		144	%	51-161			"	"	"	"	"	



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309 Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment Plant Project Manager: Erich Delmas

Tracy CA, 95304 Project: WWTP Sludge Drying Beds Reported: 3900 Holly Drive Project Number: [none] 08/21/14 16:15

Organochlorine Pesticides and PCBs by EPA Method 8081/8082 Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	RL	ML	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
Composite Drying Beds (14H0430-01) Soil Sam	pled: 08/0	6/14 11:0	04 Recei	ived: 08	3/06/14 21	1:45					R-06
Aldrin	ND	0.12	0.88	0.0050	mg/kg	177	AH41415	08/14/14 08:19	08/19/14 21:56	EPA 8081/8082	MCB	U
alpha-BHC	ND	0.12	0.88	0.0050	"	"	"	"	"	"	"	U
beta-BHC	ND	0.12	0.88	0.0050	"	"	"	"	"	"	"	U
delta-BHC	ND	0.11	0.88	0.0050	"	"	"	"	"	"	"	U
gamma-BHC (Lindane)	ND	0.12	0.88	0.0050	"	"	"	"	"	"	"	U
Chlordane (tech)	ND	7.1	35	0.20	"	"	"	"	"	"	"	U
4,4′-DDD	ND	0.35	0.88	0.0050	"	"	"	"	"	"	"	U
4,4′-DDE	ND	0.16	0.88	0.0050	"	"	"	"	"	"	"	U
4,4′-DDT	ND	0.18	0.88	0.0050	"	"	"	"	"	"	"	U
Dieldrin	ND	0.16	0.88	0.0050	"	"	"	"	"	"	"	U
Endosulfan I	ND	0.35	0.88	0.0050	"	"	"	"	"	"	"	U
Endosulfan II	ND	0.14	0.88	0.0050	"	"	"	"	"	"	"	U
Endosulfan sulfate	ND	0.18	0.88	0.0050	"	"	"	"	"	"	"	U
Endrin	ND	0.35	0.88	0.0050	"	"	"	"	"	"	"	U
Endrin aldehyde	ND	0.12	0.88	0.0050	"	"	"	"	"	"	"	U
Heptachlor	ND	0.35	0.88	0.0050	"	"	"	"	"	"	"	U
Heptachlor epoxide	ND	0.18	0.88	0.0050	"	"	"	"	"	"	"	U
Methoxychlor	ND	0.35	0.88	0.0050	"	"	"	"	"	"	"	U
Toxaphene	ND	3.5	35	0.20	"	"	"	"	"	"	"	U
PCB-1016	ND	0.010	0.20	0.20	"	1	"	"	08/19/14 21:34	"	"	U
PCB-1221	ND	0.0070	0.20	0.20	"	"	"	"	"	"	"	U
PCB-1232	ND	0.010	0.20	0.20	"	"	"	"	"	"	"	U
PCB-1242	ND	0.0070	0.20	0.20	"	"	"	"	"	"	"	U
PCB-1248	ND	0.020	0.20	0.20	"	"	"	"	"	"	"	U
PCB-1254	ND	0.020	0.20	0.20	"	"	"	"	"	"	"	U
PCB-1260	ND	0.0090	0.20	0.20	"	"	"	"	"	"	"	U
Surrogate: Dibutylchlorendate		192	0/2	50-120			,,	,,	08/19/14 21:56	"	,,	S-06



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309
Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment Plant Project Manager: Erich Delmas

Tracy CA, 95304 Project: WWTP Sludge Drying Beds Reported: 3900 Holly Drive Project Number: [none] 08/21/14 16:15

Semivolatile Organic Compounds by EPA Method 8270C Alpha Analytical Laboratories, Inc.

Acenaphthylene ND 2.0 6.2 0.062 mg/kg 100 AH41320 08/13/14 06:41 08/20/14 16:31 EPA 8270C NBH Acenaphthylene ND 2.0 6.2 0.062 " " " " " " " " " " " " " " " " " " "	Analyte	Result	MDL	RL	ML	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
Acenaphthylene	Composite Drying Beds (14H0430-01) Soi	l Sam	pled: 08/06	5/14 11:0	4 Rece	eived: 08	8/06/14 2	1:45					R-06
Anthracene ND 1.0 6.2 0.062 " " " " " " " " " " " " " " " " " " "	Acenaphthene	ND	2.0	6.2	0.062	mg/kg	100	AH41320	08/13/14 06:41	08/20/14 16:31	EPA 8270C	NBH	U
Benzidine Benzo (a) anthracene ND	Acenaphthylene	ND	2.0	6.2	0.062	"	"	"	"	"	"	"	U
Berizo (a) anthracene Berizo (a) pyrene Berizo (a) pyrene ND	Anthracene	ND	1.0	6.2	0.062	"	"	"	"	"	"	"	U
Benzo (a) pyrene ND 3.0 6.2 0.062 " " " " " " " " " " " " " " " " " " "	Benzidine	ND	50	160	1.6	"	"	"	"	"	"	"	U
Benzo (b) fluoranthene ND 3.0 6.2 0.062 " " " " " " " " " " " " " " " " " " "	Benzo (a) anthracene	ND	2.0	33	0.33	"	"	"	"	"	"	"	U
Benzo (g.h.i) perylene	Benzo (a) pyrene	ND	3.0	6.2	0.062	"	"	"	"	"	"	"	U
Benzo (k) fluoranthene ND 5.0 6.2 0.062 " <t< td=""><td>Benzo (b) fluoranthene</td><td>ND</td><td>3.0</td><td>6.2</td><td>0.062</td><td>"</td><td>"</td><td>"</td><td>"</td><td>"</td><td>"</td><td>"</td><td>U</td></t<>	Benzo (b) fluoranthene	ND	3.0	6.2	0.062	"	"	"	"	"	"	"	U
Benzoia acid ND 60 160 160 1.6 " " " " " " " " " " " " " " " " " " "	Benzo (g,h,i) perylene	ND	3.0	6.2	0.062	"	"	"	"	"	"	"	U
Benzyl alcohol ND 20 66 0.66 " " " " " " " " " " " " " " " " " "	Benzo (k) fluoranthene	ND	5.0	6.2	0.062	"	"	"	"	"	"	"	U
Bis(2-chloroethoxy)methane ND 20 33 0.33 " " " " " " " " " " " " " " " " " "	Benzoic acid	ND	60	160	1.6	"	"	"	"	"	"	"	U
Bis(2-chloroethyl)ether ND 20 33 0.33 " " " " " " " " " " " " " " " " " "	Benzyl alcohol	ND	20	66	0.66	"	"	"	"	"	"	"	U
Bis(2-chloroisopropyl)ether ND 20 33 0.33 " " " " " " " " " " " " " " " " " "	Bis(2-chloroethoxy)methane	ND	20	33	0.33	"	"	"	"	"	"	"	U
Bis(2-ethylhexyl)phthalate 36 9.0 33 0.33 " " " " " " " " " " " " " " " " " "	Bis(2-chloroethyl)ether	ND	20	33	0.33	"	"	"	"	"	"	"	U
4-Bromophenyl phenyl ether ND 20 33 0.33 " " " " " " " " " " " " " " " " 4-Chloro-3-methylphenol ND 20 33 0.33 " " " " " " " " " " " " " " " " " "	Bis(2-chloroisopropyl)ether	ND	20	33	0.33	"	"	"	"	"	"	"	U
Butyl benzyl phthalate ND 20 33 0.33 " " " " " " " " " " " " " " " " " "	Bis(2-ethylhexyl)phthalate	36	9.0	33	0.33	"	"	"	"	"	"	"	
4-Chloro-3-methylphenol ND 20 33 0.33 " " " " " " " " " " " " " " " " " "	4-Bromophenyl phenyl ether	ND	20	33	0.33	"	"	"	"	"	"	"	U
4-Chloroaniline ND 20 66 0.66 " " " " " " " " " " " " " " " " " "	Butyl benzyl phthalate	ND	20	33	0.33	"	"	"	"	"	"	"	U
2-Chloronaphthalene ND 20 33 0.33 " " " " " " " " " " " " " " " " " "	4-Chloro-3-methylphenol	ND	20	33	0.33	"	"	"	"	"	"	"	U
2-Chlorophenol ND 20 33 0.33 " " " " " " " " " " " " " " " " " "	4-Chloroaniline	ND	20	66	0.66	"	"	"	"	"	"	"	U
4-Chlorophenyl phenyl ether ND 20 33 0.33 " " " " " " " " " " " " " " " " " "	2-Chloronaphthalene	ND	20	33	0.33	"	"	"	"	"	"	"	U
Chrysene ND 3.0 6.2 0.062 " " " " " " " " " " " " " " " " " " "	2-Chlorophenol	ND	20	33	0.33	"	"	"	"	"	"	"	U
Di-n-butyl phthalate	4-Chlorophenyl phenyl ether	ND	20	33	0.33	"	"	"	"	"	"	"	U
Di-n-octyl phthalate ND 20 33 0.33 "	Chrysene	ND	3.0	6.2	0.062	"	"	"	"	"	"	"	U
Dibenz (a,h) anthracene ND 2.0 6.2 0.062 "	Di-n-butyl phthalate	ND	20	33	0.33	"	"	"	"	"	"	"	U
Dibenz (a,h) anthracene ND 2.0 6.2 0.062 "	Di-n-octyl phthalate	ND	20	33	0.33	"	"	"	"	"	"	"	U
1,2-Dichlorobenzene ND 20 33 0.33 "		ND	2.0	6.2	0.062	"	"	"	"	"	"	"	U
1,3-Dichlorobenzene ND 20 33 0.33 " " " " " " " " " " " " " " " " " "	Dibenzofuran	ND	10	33	0.33	"	"	"	"	"	"	"	U
1,4-Dichlorobenzene ND 20 33 0.33 " " " " " " " " " "	1,2-Dichlorobenzene	ND	20	33	0.33	"	"	"	"	"	"	"	U
	1,3-Dichlorobenzene	ND	20	33	0.33	"	"	"	"	"	"	"	U
3,3'-Dichlorobenzidine ND 50 66 0.66 " " " " " " " " "	1,4-Dichlorobenzene	ND	20	33	0.33	"	"	"	"	"	"	"	U
	3,3'-Dichlorobenzidine	ND	50	66	0.66	"	"	"	"	"	"	"	U
2,4-Dichlorophenol ND 20 33 0.33 " " " " " " " "						"	"	"	"	"	"	"	U

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309
Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment Plant Project Manager: Erich Delmas

Tracy CA, 95304 Project: WWTP Sludge Drying Beds Reported: 3900 Holly Drive Project Number: [none] 08/21/14 16:15

Semivolatile Organic Compounds by EPA Method 8270C Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	RL	ML	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
Composite Drying Beds (14H0430-0	01) Soil Sam	pled: 08/0	6/14 11:04	Rece	ived: 08	/06/14 2	1:45					R-06
Diethyl phthalate	ND	10	33	0.33	mg/kg	100	AH41320	08/13/14 06:41	08/20/14 16:31	EPA 8270C	"	U
Dimethyl phthalate	ND	20	33	0.33	"	"	"	"	"	"	"	U
2,4-Dimethylphenol	ND	20	33	0.33	"	"	"	"	"	"	"	U
4,6-Dinitro-2-methylphenol	ND	30	160	1.6	"	"	"	"	"	"	"	U
2,4-Dinitrophenol	ND	20	160	1.6	"	"	"	"	"	"	"	U
2,4-Dinitrotoluene	ND	10	33	0.33	"	"	"	"	"	"	"	U
2,6-Dinitrotoluene	ND	20	33	0.33	"	"	"	"	"	"	"	U
1,2-Diphenylhydrazine	ND	20	33	0.33	"	"	"	"	"	"	"	U
Fluoranthene	ND	3.0	6.2	0.062	"	"	"	"	"	"	"	U
Fluorene	ND	2.0	6.2	0.062	"	"	"	"	"	"	"	U
Hexachlorobenzene	ND	10	33	0.33	"	"	"	"	"	"	"	U
Hexachlorobutadiene	ND	20	33	0.33	"	"	"	"	"	"	"	U
Hexachlorocyclopentadiene	ND	20	160	1.6	"	"	"	"	"	"	"	U
Hexachloroethane	ND	20	33	0.33	"	"	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	2.0	6.2	0.062	"	"	"	"	"	"	"	U
Isophorone	ND	20	33	0.33	"	"	"	"	"	"	"	U
2-Methylnaphthalene	ND	2.0	6.2	0.062	"	"	"	"	"	"	"	U
2-Methylphenol (o-cresol)	ND	20	33	0.33	"	"	"	"	"	"	"	U
3 & 4-Methylphenol (m,p-cresol)	ND	20	33	0.33	"	"	"	"	"	"	"	U
N-Nitrosodi-n-propylamine	ND	20	33	0.33	"	"	"	"	"	"	"	U
N-Nitrosodimethylamine	ND	30	66	0.66	"	"	"	"	"	"	"	U
N-Nitrosodiphenylamine	ND	20	33	0.33	"	"	"	"	"	"	"	U
Naphthalene	ND	2.0	6.2	0.062	"	"	"	"	"	"	"	U
2-Nitroaniline	ND	20	160	1.6	"	"	"	"	"	"	"	U
3-Nitroaniline	ND	30	160	1.6	"	"	"	"	"	"	"	U
4-Nitroaniline	ND	20	160	1.6	"	"	"	"	"	"	"	U
Nitrobenzene	ND	20	33	0.33	"	"	"	"	"	"	"	U
2-Nitrophenol	ND	30	160	1.6	"	"	"	"	"	"	"	U
4-Nitrophenol	ND	30	160	1.6	"	"	"	"	"	"	"	U
Pentachlorophenol	ND	20	160	1.6	"	"	"	"	"	"	"	U
Phenanthrene	ND	3.0	6.2	0.062	"	"	"	"	"	"	"	U
Phenol	ND	20	33	0.33	"	"	"	,,	"	"	"	U

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309
Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment Plant Project Manager: Erich Delmas

Tracy CA, 95304Project:WWTP Sludge Drying BedsReported:3900 Holly DriveProject Number:[none]08/21/14 16:15

Semivolatile Organic Compounds by EPA Method 8270C Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	RL	ML	Units	Dilution	n Batch	Prepared	Analyzed	Method	Analyst	Notes
Composite Drying Beds (14H0430-01) Se	oil Sam _j	pled: 08/06/1	14 11:0	4 Recei	ived: 08	/06/14 2	21:45					R-06
Pyrene	ND	3.0	6.2	0.062	mg/kg	100	AH41320	08/13/14 06:41	08/20/14 16:31	EPA 8270C	"	U
1,2,4-Trichlorobenzene	ND	20	33	0.33	"	"	"	"	"	"	"	U
2,4,5-Trichlorophenol	ND	20	33	0.33	"	"	"	"	"	"	"	U
2,4,6-Trichlorophenol	ND	20	33	0.33	"	"	"	"	"	"	"	U
Surrogate: 2-Fluorobiphenyl		88.8 %		61-117			"	"	"	"	"	
Surrogate: 2-Fluorophenol		85.0 %		50-113			"	"	"	"	"	
Surrogate: Nitrobenzene-d5		92.5 %		47-123			"	"	"	"	"	
Surrogate: p-Terphenyl-d14		96.2 %		63-133			"	"	"	"	"	
Surrogate: Phenol-d6		77.5 %		49-119			"	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		110 %		52-129			"	"	"	"	"	



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309 Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment Plant

Project Manager: Erich Delmas

Tracy CA, 95304 3900 Holly Drive Project: WWTP Sludge Drying Beds

Project Number: [none]

Reported: 08/21/14 16:15

Additional Semivolatile Organic Compounds by EPA Method 8270C Alpha Analytical Laboratories, Inc.

Analyte R	ogult.	MDL	RL	ML	Units	Dilution	Batch	Dramanad	Amalyzad	Method	A l 4	Notes
-	lesult							Prepared	Analyzed	Method	Analyst	Notes
Composite Drying Beds (14H0430-01) Soil	Samp	oled: 08/0	6/14 11:04	Recei	ved: 08	/06/14 2	1:45					
Pyridine	ND	15000	50000	500	mg/kg	100	AH41320	08/13/14 06:41	08/20/14 16:31	EPA 8270C	"	R-06, U
Surrogate: 2-Fluorobiphenyl		88.8	%	61-117			"	"	"	"	"	
Surrogate: 2-Fluorophenol		85.0	%	50-113			"	"	"	"	"	
Surrogate: Nitrobenzene-d5		92.5	%	47-123			"	"	"	"	"	
Surrogate: p-Terphenyl-d14		96.2	%	63-133			"	"	"	"	"	
Surrogate: Phenol-d6		77.5	%	49-119			"	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		110	%	52-129			"	"	"	"	"	



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309 Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment Plant Project Manager: Erich Delmas Reported: Project: WWTP Sludge Drying Beds Tracy CA, 95304 3900 Holly Drive Project Number: [none] 08/21/14 16:15

Metals by EPA 6000/7000 Series Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AH41336 - EPA 3051 Mic	rowave										
Blank (AH41336-BLK1)					Prepared &	: Analyzed:	08/13/14				
Arsenic	ND	0.40	2.0	mg/kg		-					U
Cadmium	ND	0.070	1.0	"							U
Chromium	ND	0.090	5.0	"							U
Copper	1.92	0.20	10	"							J
Lead	ND	0.10	5.0	"							U
Molybdenum	0.0690	0.050	10	"							J
Nickel	ND	0.20	10	"							U
Phosphorus	ND	3.0	50	"							U
Potassium	ND	2.0	50	"							U
Selenium	ND	0.70	2.0	"							U
Zinc	0.678	0.40	10	"							J
LCS (AH41336-BS1)					Prepared &	Analyzed:	08/13/14				
Arsenic	17.1	0.40	2.0	mg/kg	20.0		85.5	80-120			
Cadmium	18.4	0.070	1.0	"	20.0		92.1	85-115			
Chromium	17.6	0.090	5.0	"	20.0		88.0	85-115			
Copper	19.4	0.20	10	"	21.0		92.6	85-115			
Lead	18.7	0.10	5.0	"	20.0		93.5	85-115			
Molybdenum	17.1	0.050	10	"	20.0		85.7	85-115			
Nickel	17.2	0.20	10	"	20.0		86.2	85-115			
Phosphorus	213	3.0	50	"	200		107	85-115			
Potassium	749	2.0	50	"	800		93.6	85-115			
Selenium	17.2	0.70	2.0	"	20.0		86.0	68-118			
Zinc	19.9	0.40	10	"	20.0		99.5	85-115			
Duplicate (AH41336-DUP1)		Source:	14H0164-01	l	Prepared &	: Analyzed:	08/13/14				
Arsenic	1.22	0.40	2.0	mg/kg		0.991			21.1	20	J
Cadmium	ND	0.070	1.0	"		ND				20	U
Chromium	15.7	0.090	5.0	"		12.3			23.9	20	QM-04
Copper	8.55	0.20	10	"		6.98			20.2	20	J
Lead	2.79	0.10	5.0	"		2.32			18.0	20	Ј
Molybdenum	0.371	0.050	10	"		0.252			38.2	20	J

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309 Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment Plant

Project Manager: Erich Delmas

Tracy CA, 95304 3900 Holly Drive Project: WWTP Sludge Drying Beds

Project Number: [none]

Reported: 08/21/14 16:15

Metals by EPA 6000/7000 Series Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AH41336 - EPA 3051 Micro	wave										
Duplicate (AH41336-DUP1)		Source:	14H0164-01		Prepared &	Analyzed:	08/13/14				
Nickel	12.1	0.20	10	mg/kg		9.85			20.6	20	QM-04
Phosphorus	75.7	3.0	50	"		59.3			24.2	20	QM-04
Potassium	683	2.0	50	"		493			32.3	20	QM-04
Selenium	ND	0.70	2.0	"		ND				20	J
Zinc	12.5	0.40	10	"		8.81			34.5	20	QM-04
Matrix Spike (AH41336-MS1)		Source:	14H0164-01		Prepared &	z Analyzed:	08/13/14				
Arsenic	20.3	0.40	2.0	mg/kg	20.0	0.991	96.7	70-130			
Cadmium	17.9	0.070	1.0	"	20.0	ND	89.4	70-130			
Chromium	33.0	0.090	5.0	"	20.0	12.3	103	70-130			
Copper	29.2	0.20	10	"	21.0	6.98	106	70-130			
Lead	21.4	0.10	5.0	"	20.0	2.32	95.4	70-130			
Molybdenum	19.1	0.050	10	"	20.0	0.252	94.0	70-130			
Nickel	30.4	0.20	10	"	20.0	9.85	103	70-130			
Phosphorus	269	3.0	50	"	200	59.3	105	70-130			
Potassium	1290	2.0	50	"	800	493	99.8	70-130			
Selenium	18.6	0.70	2.0	"	20.0	ND	92.9	7-107			
Zinc	28.1	0.40	10	"	20.0	8.81	96.5	70-130			
Matrix Spike (AH41336-MS2)		Source:	14H0959-01		Prepared: (08/13/14 Aı	nalyzed: 08	/16/14			
Arsenic	19.8	0.40	2.0	mg/kg	20.0	ND	98.8	70-130			
Cadmium	18.9	0.070	1.0	"	20.0	ND	94.4	70-130			
Chromium	44.7	0.090	5.0	"	20.0	21.7	115	70-130			
Copper	54.6	0.20	10	"	21.0	32.9	103	70-130			
Lead	20.5	0.10	5.0	"	20.0	1.55	94.9	70-130			
Molybdenum	19.7	0.050	10	"	20.0	0.772	94.6	70-130			
Nickel	45.9	0.20	10	"	20.0	23.2	113	70-130			
Phosphorus	521	3.0	50	"	200	322	99.6	70-130			
Potassium	2330	2.0	50	"	800	1430	113	70-130			
Selenium	19.9	0.70	2.0	"	20.0	1.55	92.0	7-107			
Zinc	107	0.40	10	"	20.0	84.7	112	70-130			



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309 Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment Plant

Project Manager: Erich Delmas

Tracy CA, 95304 3900 Holly Drive Project: WWTP Sludge Drying Beds

Project Number: [none]

Reported: 08/21/14 16:15

Metals by EPA 6000/7000 Series Methods - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AH41336 - EPA 3051 Microway	ve										
Matrix Spike Dup (AH41336-MSD1)		Source: 1	4H0164-01	-	Prepared &	z Analyzed:	08/13/14				
Arsenic	19.7	0.40	2.0	mg/kg	20.0	0.991	93.5	70-130	3.18	20	
Cadmium	17.9	0.070	1.0	"	20.0	ND	89.4	70-130	0.00476	20	
Chromium	33.4	0.090	5.0	"	20.0	12.3	105	70-130	1.24	20	
Copper	28.6	0.20	10	"	21.0	6.98	103	70-130	2.03	20	
Lead	20.9	0.10	5.0	"	20.0	2.32	92.7	70-130	2.59	20	
Molybdenum	18.7	0.050	10	"	20.0	0.252	92.3	70-130	1.81	20	
Nickel	29.5	0.20	10	"	20.0	9.85	98.5	70-130	2.80	20	
Phosphorus	252	3.0	50	"	200	59.3	96.6	70-130	6.24	20	
Potassium	1290	2.0	50	"	800	493	99.1	70-130	0.491	20	
Selenium	18.2	0.70	2.0	"	20.0	ND	91.1	7-107	1.96	20	
Zine	27.9	0.40	10	"	20.0	8.81	95.3	70-130	0.921	20	
Batch AH41427 - EPA 7471A Hg Soil											
Blank (AH41427-BLK1)					Prepared: (08/15/14 Aı	nalyzed: 08	/18/14			
Mercury	ND	0.020	0.20	mg/kg							U
LCS (AH41427-BS1)					Prepared: (08/15/14 Aı	nalyzed: 08	/18/14			
Mercury	0.950	0.020	0.20	mg/kg	1.00		95.0	80-120			
Duplicate (AH41427-DUP1)		Source: 1	4H0596-04	ļ	Prepared: (08/15/14 Aı	nalyzed: 08	/18/14			
Mercury	0.205	0.020	0.20	mg/kg		0.190			7.59	20	
Matrix Spike (AH41427-MS1)		Source: 1	4H0596-04	l .	Prepared: (08/15/14 Aı	nalyzed: 08	/18/14			
Mercury	1.05	0.020	0.20	mg/kg	1.00	0.190	86.0	60-140	·		
Matrix Spike Dup (AH41427-MSD1)		Source: 1	4H0596-04	ļ	Prepared: (08/15/14 Aı	nalyzed: 08	/18/14			
Mercury	1.10	0.020	0.20	mg/kg	1.00	0.190	91.0	60-140	4.65	20	



e-mail: clientservices@alpha-labs.com

Reported:

08/21/14 16:15

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309 Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment Plant Project Manager: Erich Delmas Project: WWTP Sludge Drying Beds Tracy CA, 95304

3900 Holly Drive Project Number: [none]

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AH41127 - General Preparation											
Duplicate (AH41127-DUP1)		Source: 1	14H0044-01	-	Prepared &	Analyzed:	08/11/14				
pH	8.22	1.68	1.68	pH Units		8.22			0.00	20	
Batch AH41403 - General Prep											
LCS (AH41403-BS1)					Prepared: (08/14/14 Aı	nalyzed: 08	/18/14			
Total Kjeldahl Nitrogen	55500	2.0	10	mg/kg	56600		98.0	80-120			
LCS Dup (AH41403-BSD1)					Prepared: (08/14/14 A	nalyzed: 08	/18/14			
Total Kjeldahl Nitrogen	55500	2.0	10	mg/kg	56600		98.0	80-120	0.00	20	
Batch AH41410 - General Preparation											
Blank (AH41410-BLK1)					Prepared: (08/08/14 Aı	nalyzed: 08	/13/14			
Biochemical Oxygen Demand	ND	2.0	5.0	mg/kg							U
LCS (AH41410-BS1)					Prepared: (08/06/14 Aı	nalyzed: 08	/11/14			
Biochemical Oxygen Demand	206	2.0	5.0	mg/kg	200		103	84-115			
Duplicate (AH41410-DUP1)		Source: 1	14H0430-01	-	Prepared: (08/08/14 Aı	nalyzed: 08	/13/14			
Biochemical Oxygen Demand	18600	2.0	5.0	mg/kg		33600			57.7	30	QM-04
Batch AH41849 - General Preparation											
Blank (AH41849-BLK1)					Prepared &	z Analyzed:	08/19/14				
Ammonia as N	ND	0.050	0.050	mg/kg	•						U



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309
Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment PlantProject Manager:Erich DelmasTracy CA, 95304Project:WWTP Sludge Drying BedsReported:3900 Holly DriveProject Number:[none]08/21/14 16:15

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AH41849 - General Preparation											
LCS (AH41849-BS1)					Prepared &	Analyzed:	08/19/14				
Ammonia as N	5.08	0.050	0.050	mg/kg	5.00		102	90-110			
LCS Dup (AH41849-BSD1)					Prepared &	Analyzed:	08/19/14				
Ammonia as N	5.08	0.050	0.050	mg/kg	5.00		102	90-110	0.00	10	
Batch AH42024 - General Preparation											
Blank (AH42024-BLK1)					Prepared: (08/20/14 At	nalyzed: 08	/21/14			
% Solids	ND	0.100	0.100	%							U
Duplicate (AH42024-DUP1)		Source: 1	4H0430-01		Prepared: (08/20/14 A ₁	nalyzed: 08	/21/14			
% Solids	96.2	0.100	0.100	%		96.6			0.456	20	



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309
Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment PlantProject Manager:Erich DelmasTracy CA, 95304Project:WWTP Sludge Drying BedsReported:3900 Holly DriveProject Number:[none]08/21/14 16:15

Anions by EPA Method 300.0 - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AH41862 - General Preparation											
Blank (AH41862-BLK1)					Prepared &	Analyzed:	08/18/14				
Nitrate as N	ND	0.40	2.0	mg/kg							U
LCS (AH41862-BS1)					Prepared &	Analyzed:	08/18/14				
Nitrate as N	52.2	0.40	2.0	mg/kg	50.0		104	90-110			
Duplicate (AH41862-DUP1)		Source: 14	4H0705-03	1	Prepared: (08/18/14 A	nalyzed: 08	3/19/14			
Nitrate as N	6.79	0.40	2.0	mg/kg		6.79			0.00	20	
Matrix Spike (AH41862-MS1)		Source: 14	4H0705-03	1	Prepared: (08/18/14 A	nalyzed: 08	3/19/14			
Nitrate as N	56.3	2.0	10	mg/kg	50.0	6.79	99.0	80-120			
Matrix Spike Dup (AH41862-MSD1)		Source: 14	4H0705-03	,	Prepared: (08/18/14 A	nalyzed: 08	3/19/14			
Nitrate as N	56.3	2.0	10	mg/kg	50.0	6.79	99.0	80-120	0.0401	20	



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309
Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment Plant

Batch AH41149 - VOAs in Soil GCMS

Project Manager: Erich Delmas

Tracy CA, 95304 3900 Holly Drive Project: WWTP Sludge Drying Beds

Project Number: [none]

Reported: 08/21/14 16:15

Volatile Organic Compounds by EPA Method 8260B - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (AH41149-BLK1)				Prepared & Analyzed: 08/11/14	R-11
Acetone	ND	0.083	0.69	mg/kg	U
Benzene	ND	0.0069	0.17	п	U
Bromobenzene	ND	0.010	0.17	п	U
Bromochloromethane	ND	0.0069	0.17	H .	U
Bromodichloromethane	ND	0.0069	0.17	"	U
Bromoform	ND	0.0069	0.17	H .	U
Bromomethane	ND	0.010	0.17	H .	U
n-Butylbenzene	ND	0.0069	0.17	"	U
sec-Butylbenzene	ND	0.0069	0.17	"	U
tert-Butylbenzene	ND	0.0035	0.17	H .	U
Carbon tetrachloride	ND	0.0069	0.17	"	U
Chlorobenzene	ND	0.0069	0.17	"	U
Chloroethane	ND	0.010	0.17	"	U
Chloroform	ND	0.0069	0.17	n	U
Chloromethane	ND	0.010	0.17	"	U
2-Chlorotoluene	ND	0.0069	0.17	"	U
4-Chlorotoluene	ND	0.0035	0.17	n	U
Dibromochloromethane	ND	0.0035	0.17	"	U
1,2-Dibromo-3-chloropropane	ND	0.014	0.17	"	U
1,2-Dibromoethane (EDB)	ND	0.0069	0.17	"	U
Dibromomethane	ND	0.0069	0.17	"	U
1,2-Dichlorobenzene	ND	0.0069	0.17	"	U
1,3-Dichlorobenzene	ND	0.0069	0.17	"	U
1,4-Dichlorobenzene	ND	0.0069	0.17	n	U
Dichlorodifluoromethane	ND	0.010	0.17	"	U
1,1-Dichloroethane	ND	0.0069	0.17	n .	U
1,2-Dichloroethane	ND	0.0069	0.17	"	U
1,1-Dichloroethene	ND	0.0035	0.17	"	U
cis-1,2-Dichloroethene	ND	0.0069	0.17	"	U
trans-1,2-Dichloroethene	ND	0.021	0.17	"	U
1,2-Dichloropropane	ND	0.0035	0.17	"	U



0.0069

ND

ND

ND

ND

ND

ND

ND

ND

0.0069

0.010

0.0069

0.014

0.0035

0.0035

0.0069

0.010

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309 Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment Plant

Batch AH41149 - VOAs in Soil GCMS

Project Manager: Erich Delmas

Tracy CA, 95304 3900 Holly Drive

Blank (AH41149-BLK1)

1,3-Dichloropropane

1,1,2-Trichloroethane

Trichlorofluoromethane

Trichlorotrifluoroethane

1,2,3-Trichloropropane

1,2,4-Trimethylbenzene

1,3,5-Trimethylbenzene

Vinyl chloride

Trichloroethene

Project: WWTP Sludge Drying Beds

Reported: 08/21/14 16:15 Project Number: [none]

Prepared & Analyzed: 08/11/14

Volatile Organic Compounds by EPA Method 8260B - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

mg/kg

0.17

2,2-Dichloropropane	ND	0.010	0.17	"
1,1-Dichloropropene	ND	0.010	0.17	"
cis-1,3-Dichloropropene	ND	0.0069	0.17	"
trans-1,3-Dichloropropene	ND	0.0069	0.17	"
Ethylbenzene	ND	0.0069	0.17	"
Hexachlorobutadiene	ND	0.010	0.17	"
Isopropylbenzene	ND	0.0069	0.17	"
p-Isopropyltoluene	ND	0.0069	0.17	"
Methyl ethyl ketone	ND	0.042	0.52	"
Methyl isobutyl ketone	ND	0.024	0.35	"
Methyl tert-butyl ether	ND	0.0069	0.17	"
Methylene chloride	ND	0.014	0.17	"
Naphthalene	ND	0.0069	0.17	"
n-Propylbenzene	ND	0.0035	0.17	"
Styrene	ND	0.0035	0.17	"
1,1,1,2-Tetrachloroethane	ND	0.0035	0.17	"
1,1,2,2-Tetrachloroethane	ND	0.0069	0.17	"
Tetrachloroethene	ND	0.014	0.17	"
Toluene	ND	0.0069	0.17	"
1,2,3-Trichlorobenzene	ND	0.010	0.17	"
1,2,4-Trichlorobenzene	ND	0.010	0.17	"
1,1,1-Trichloroethane	ND	0.0069	0.17	"

0.17

0.17

0.17

0.17

0.17

0.17

0.17

0.17

R-11

U

U

U

U

U

U

U

U



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309
Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment Plant

Project Manager: Erich Delmas

Tracy CA, 95304 3900 Holly Drive Project: WWTP Sludge Drying Beds

Project Number: [none]

Reported: 08/21/14 16:15

Volatile Organic Compounds by EPA Method 8260B - Quality Control Alpha Analytical Laboratories, Inc.

Analyta	Damile	MDI	Reporting	Heita	Spike	Source	0/PEC	%REC	מתם	RPD	Notes
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AH41149 - VOAs in Soil GC	MS										
Blank (AH41149-BLK1)					Prepared &	Analyzed:	08/11/14				R-1
m,p-Xylene	ND	0.010	0.17	mg/kg							J
o-Xylene	ND	0.0035	0.17	"							J
Xylenes (total)	ND	0.010	0.17	"							τ
Surrogate: Bromofluorobenzene	5.45			"	4.32		126	38-163			
Surrogate: Dibromofluoromethane	5.53			"	4.32		128	39-154			
Surrogate: Toluene-d8	5.87			"	4.32		136	51-161			
LCS (AH41149-BS1)					Prepared &	z Analyzed:	08/11/14				
Benzene	5.34	0.0069	0.17	mg/kg	5.00		107	58-143	·		
Chlorobenzene	5.17	0.0069	0.17	"	5.00		103	76-145			
1,1-Dichloroethene	5.33	0.0035	0.17	"	5.00		107	77-142			
Toluene	5.42	0.0069	0.17	"	5.00		108	55-158			
Trichloroethene	5.02	0.010	0.17	"	5.00		100	71-139			
Surrogate: Bromofluorobenzene	5.66			"	4.32		131	38-163			
Surrogate: Dibromofluoromethane	5.43			"	4.32		126	39-154			
Surrogate: Toluene-d8	5.93			"	4.32		137	51-161			
LCS Dup (AH41149-BSD1)					Prepared &	z Analyzed:	08/11/14				
Benzene	6.37	0.0069	0.17	mg/kg	5.00		127	58-143	17.6	25	
Chlorobenzene	6.15	0.0069	0.17	"	5.00		123	76-145	17.3	25	
1,1-Dichloroethene	6.28	0.0035	0.17	"	5.00		126	77-142	16.3	25	
Toluene	6.39	0.0069	0.17	"	5.00		128	55-158	16.5	25	
Trichloroethene	5.98	0.010	0.17	"	5.00		120	71-139	17.5	25	
Surrogate: Bromofluorobenzene	5.90			"	4.32		137	38-163			
Surrogate: Dibromofluoromethane	5.71			"	4.32		132	39-154			
Surrogate: Toluene-d8	6.24			"	4.32		144	51-161			
Matrix Spike (AH41149-MS1)		Source:	14H0430-01	l	Prepared &	z Analyzed:	08/11/14				
Benzene	5.54	0.0069	0.17	mg/kg	4.63	ND	120	37-149			
Chlorobenzene	5.47	0.0069	0.17	"	4.63	ND	118	44-157			
1,1-Dichloroethene	5.60	0.0035	0.17	"	4.63	ND	121	38-165			
Toluene	5.72	0.0069	0.17	"	4.63	ND	124	22-166			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



e-mail: clientservices@alpha-labs.com

%REC

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309
Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment Plant

Project Manager: Erich Delmas

Tracy CA, 95304 3900 Holly Drive Project: WWTP Sludge Drying Beds

Spike

Source

Project Number: [none]

Reporting

Reported: 08/21/14 16:15

RPD

Volatile Organic Compounds by EPA Method 8260B - Quality Control Alpha Analytical Laboratories, Inc.

Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
AS										
	Source: 1	4H0430-01	l	Prepared &	Analyzed:	08/11/14				
5.33	0.010	0.17	mg/kg	4.63	ND	115	51-146			
5.37			"	4.00		134	38-163			
4.97			"	4.00		124	39-154			
5.48			"	4.00		137	51-161			
	Source: 1	4H0430-01	l	Prepared &	Analyzed:	08/11/14				
5.32	0.0069	0.17	mg/kg	4.63	ND	115	37-149	4.01	25	
5.27	0.0069	0.17	"	4.63	ND	114	44-157	3.76	25	
5.22	0.0035	0.17	"	4.63	ND	113	38-165	7.02	25	
5.49	0.0069	0.17	"	4.63	ND	119	22-166	4.03	25	
5.10	0.010	0.17	"	4.63	ND	110	51-146	4.52	25	
5.12			"	4.00		128	38-163			
4.77			"	4.00		119	39-154			
5.27			"	4.00		132	51-161			
	5.33 5.37 4.97 5.48 5.32 5.27 5.22 5.49 5.10 5.12 4.77	Source: 1- 5.33 0.010 5.37 4.97 5.48 Source: 1- 5.32 0.0069 5.27 0.0069 5.22 0.0035 5.49 0.0069 5.10 0.010 5.12 4.77	Source: 14H0430-01 5.33 0.010 0.17 5.37 4.97 5.48 Source: 14H0430-01 5.32 0.0069 0.17 5.27 0.0069 0.17 5.22 0.0035 0.17 5.49 0.0069 0.17 5.10 0.010 0.17 5.12 4.77	Source: 14H0430-01 5.33 0.010 0.17 mg/kg 5.37 " 4.97 " 5.48 " Source: 14H0430-01 5.32 0.0069 0.17 mg/kg 5.27 0.0069 0.17 " 5.22 0.0035 0.17 " 5.49 0.0069 0.17 " 5.10 0.010 0.17 " 5.12 " 4.77 "	Source: 14H0430-01	Source: 14H0430-01	Source: 14H0430-01 Prepared & Analyzed: 08/11/14	Source: 14H0430-01	Source: 14H0430-01 Prepared & Analyzed: 08/11/14	Source: 14H0430-01



0.0356

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309 Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment Plant

Project Manager: Erich Delmas

Tracy CA, 95304

3900 Holly Drive

Surrogate: Dibutylchlorendate

Project: WWTP Sludge Drying Beds

Project Number: [none]

Reported: 08/21/14 16:15

Organochlorine Pesticides and PCBs by EPA Method 8081/8082 - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (AH41415-BLK1)				Prepared: 08/14/14 Analyzed: 08/19/1	4
Aldrin	ND	0.00070	0.0050	mg/kg	U
alpha-BHC	ND	0.00070	0.0050	n .	U
beta-BHC	ND	0.00070	0.0050	n .	U
delta-BHC	ND	0.00060	0.0050	n .	U
gamma-BHC (Lindane)	ND	0.00070	0.0050	n .	U
Chlordane (tech)	ND	0.040	0.20	n .	U
4,4′-DDD	ND	0.0020	0.0050	n .	U
4,4′-DDE	ND	0.00090	0.0050	n	U
4,4′-DDT	ND	0.0010	0.0050	n	U
Dieldrin	ND	0.00090	0.0050	n .	U
Endosulfan I	ND	0.0020	0.0050	n	U
Endosulfan II	ND	0.00080	0.0050	n	U
Endosulfan sulfate	ND	0.0010	0.0050	n	U
Endrin	ND	0.0020	0.0050	n	U
Endrin aldehyde	ND	0.00070	0.0050	n	U
Heptachlor	ND	0.0020	0.0050	n	U
Heptachlor epoxide	ND	0.0010	0.0050	n	U
Methoxychlor	ND	0.0020	0.0050	n	U
Toxaphene	ND	0.020	0.20	n	U
PCB-1016	ND	0.010	0.20	n	U
PCB-1221	ND	0.0070	0.20	n	U
PCB-1232	ND	0.010	0.20	n	U
PCB-1242	ND	0.0070	0.20	"	U
PCB-1248	ND	0.020	0.20	n .	U
PCB-1254	ND	0.020	0.20	n	U
PCB-1260	ND	0.0090	0.20	11	U

0.0378

94.2

50-120



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309
Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment Plant

Project Manager: Erich Delmas

Tracy CA, 95304 3900 Holly Drive Project: WWTP Sludge Drying Beds

Project Number: [none]

Reported: 08/21/14 16:15

Organochlorine Pesticides and PCBs by EPA Method 8081/8082 - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
-		WIDE	Emit	Cints	Level	resuit	7 URLEC	Limito	МЪ	Emit	110103
Batch AH41415 - EPA 3540C So	xhlet										
LCS (AH41415-BS1)					Prepared: 0	8/14/14 Aı	nalyzed: 08/	/19/14			
Aldrin	0.0110	0.00070	0.0050	mg/kg	0.0120		91.6	30-143			
alpha-BHC	0.0109	0.00070	0.0050	"	0.0120		91.2	18-155			
beta-BHC	0.0120	0.00070	0.0050	"	0.0120		100	25-190			
delta-BHC	0.0108	0.00060	0.0050	"	0.0120		90.0	33-157			
gamma-BHC (Lindane)	0.0103	0.00070	0.0050	"	0.0120		86.1	33-134			
4,4′-DDD	0.0126	0.0020	0.0050	"	0.0120		105	41-139			
4,4′-DDE	0.0115	0.00090	0.0050	"	0.0120		96.0	39-146			
4,4´-DDT	0.0133	0.0010	0.0050	"	0.0120		111	42-146			
Dieldrin	0.0122	0.00090	0.0050	"	0.0120		101	39-138			
Endosulfan I	0.0124	0.0020	0.0050	"	0.0120		103	39-146			
Endosulfan II	0.0124	0.00080	0.0050	"	0.0120		103	43-142			
Endosulfan sulfate	0.0131	0.0010	0.0050	"	0.0120		109	45-148			
Endrin	0.00705	0.0020	0.0050	"	0.0120		58.8	41-164			
Endrin aldehyde	0.0113	0.00070	0.0050	"	0.0120		94.4	16-166			
Heptachlor	0.0128	0.0020	0.0050	"	0.0120		106	33-148			
Heptachlor epoxide	0.0116	0.0010	0.0050	"	0.0120		96.5	37-142			
Methoxychlor	0.0147	0.0020	0.0050	"	0.0120		123	36-148			
Surrogate: Dibutylchlorendate	0.0371			"	0.0378		98.2	50-120			
LCS Dup (AH41415-BSD1)					Prepared: 0	8/14/14 Aı	nalyzed: 08/	/19/14			
Aldrin	0.0112	0.00070	0.0050	mg/kg	0.0120		93.5	30-143	2.07	30	
lpha-BHC	0.0113	0.00070	0.0050	"	0.0120		94.3	18-155	3.40	30	
peta-BHC	0.0121	0.00070	0.0050	"	0.0120		101	25-190	0.550	30	
lelta-BHC	0.0112	0.00060	0.0050	"	0.0120		93.5	33-157	3.79	30	
gamma-BHC (Lindane)	0.0116	0.00070	0.0050	"	0.0120		96.9	33-134	11.8	30	
1,4′-DDD	0.0132	0.0020	0.0050	"	0.0120		110	41-139	4.73	30	
1,4′-DDE	0.0119	0.00090	0.0050	"	0.0120		98.8	39-146	2.88	30	
,4′-DDT	0.0148	0.0010	0.0050	"	0.0120		123	42-146	10.3	30	
Dieldrin	0.0122	0.00090	0.0050	"	0.0120		101	39-138	0.0835	30	
Endosulfan I	0.0127	0.0020	0.0050	"	0.0120		106	39-146	2.81	30	
Endosulfan II	0.0128	0.00080	0.0050	"	0.0120		106	43-142	3.01	30	



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309
Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment Plant

Project Manager: Erich Delmas

Tracy CA, 95304 3900 Holly Drive Project: WWTP Sludge Drying Beds

Project Number: [none]

Reported: 08/21/14 16:15

Organochlorine Pesticides and PCBs by EPA Method 8081/8082 - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AH41415 - EPA 3540C Sox	khlet										
LCS Dup (AH41415-BSD1)					Prepared: 0	08/14/14 Aı	nalyzed: 08	/19/14			
Endosulfan sulfate	0.0136	0.0010	0.0050	mg/kg	0.0120		114	45-148	3.81	30	
Endrin	0.00573	0.0020	0.0050	"	0.0120		47.8	41-164	20.6	30	
Endrin aldehyde	0.0120	0.00070	0.0050	"	0.0120		99.7	16-166	5.44	30	
Heptachlor	0.0133	0.0020	0.0050	"	0.0120		111	33-148	4.00	30	
Heptachlor epoxide	0.0120	0.0010	0.0050	"	0.0120		99.7	37-142	3.22	30	
Methoxychlor	0.0159	0.0020	0.0050	"	0.0120		133	36-148	7.80	30	
Surrogate: Dibutylchlorendate	0.0393			"	0.0378		104	50-120			
Matrix Spike (AH41415-MS1)		Source:	14H0430-01	[Prepared: 0	08/14/14 Aı	nalyzed: 08	/19/14			QM-05
Aldrin	ND	0.014	0.10	mg/kg	0.0120	ND		51-122			Ţ
alpha-BHC	ND	0.014	0.10	"	0.0120	ND		54-116			Ţ
beta-BHC	0.0489	0.014	0.10	"	0.0120	ND	408	27-193			
delta-BHC	0.0215	0.012	0.10	"	0.0120	ND	179	64-141			
gamma-BHC (Lindane)	ND	0.014	0.10	"	0.0120	ND		55-121			Ţ
4,4´-DDD	0.0420	0.040	0.10	"	0.0120	ND	350	46-144			
4,4′-DDE	ND	0.018	0.10	"	0.0120	ND		57-128			Ţ
4,4'-DDT	0.0269	0.020	0.10	"	0.0120	ND	224	44-154			
Dieldrin	ND	0.018	0.10	"	0.0120	ND		58-124			Ţ
Endosulfan I	ND	0.040	0.10	"	0.0120	ND		58-125			Ţ
Endosulfan II	ND	0.016	0.10	"	0.0120	ND		51-139			Ţ
Endosulfan sulfate	ND	0.020	0.10	"	0.0120	ND		51-138			Ţ
Endrin	ND	0.040	0.10	"	0.0120	ND		55-158			Ţ
Endrin aldehyde	ND	0.014	0.10	"	0.0120	ND		34-146			Ţ
Heptachlor	ND	0.040	0.10	"	0.0120	ND		42-150			Ţ
Heptachlor epoxide	ND	0.020	0.10	"	0.0120	ND		53-120			Ţ
Methoxychlor	ND	0.040	0.10	"	0.0120	ND		41-157			τ
Surrogate: Dibutylchlorendate	0.0664			"	0.0378		176	50-120			



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309 Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment Plant

Project Manager: Erich Delmas

Tracy CA, 95304 3900 Holly Drive Project: WWTP Sludge Drying Beds

Project Number: [none]

Reported: 08/21/14 16:15

Organochlorine Pesticides and PCBs by EPA Method 8081/8082 - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch AH41415 - EPA 3540C Soxhlet

Matrix Spike Dup (AH41415-MSD1	1)	Source: 14	4H0430-01	-	Prepared: 08	8/14/14 Aı	nalyzed: 08	3/19/14		QM-05
Aldrin	0.0145	0.014	0.10	mg/kg	0.0120	ND	121	51-122	30	J
alpha-BHC	ND	0.014	0.10	"	0.0120	ND		54-116	30	U
beta-BHC	0.0217	0.014	0.10	"	0.0120	ND	181	27-193	30	J
delta-BHC	0.0196	0.012	0.10	"	0.0120	ND	163	64-141	30	J
gamma-BHC (Lindane)	ND	0.014	0.10	"	0.0120	ND		55-121	30	U
4,4´-DDD	0.0535	0.040	0.10	"	0.0120	ND	445	46-144	30	J
4,4'-DDE	ND	0.018	0.10	"	0.0120	ND		57-128	30	U
4,4'-DDT	0.0267	0.020	0.10	"	0.0120	ND	222	44-154	30	J
Dieldrin	ND	0.018	0.10	"	0.0120	ND		58-124	30	U
Endosulfan I	ND	0.040	0.10	"	0.0120	ND		58-125	30	U
Endosulfan II	ND	0.016	0.10	"	0.0120	ND		51-139	30	U
Endosulfan sulfate	ND	0.020	0.10	"	0.0120	ND		51-138	30	U
Endrin	ND	0.040	0.10	"	0.0120	ND		55-158	30	U
Endrin aldehyde	ND	0.014	0.10	"	0.0120	ND		34-146	30	U
Heptachlor	ND	0.040	0.10	"	0.0120	ND		42-150	30	U
Heptachlor epoxide	ND	0.020	0.10	"	0.0120	ND		53-120	30	U
Methoxychlor	ND	0.040	0.10	"	0.0120	ND		41-157	30	U
Surrogate: Dibutylchlorendate	0.0674			"	0.0378		178	50-120		



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309
Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment Plant

Batch AH41320 - EPA 3540C Soxhlet MS

Project Manager: Erich Delmas

Tracy CA, 95304 3900 Holly Drive Project: WWTP Sludge Drying Beds

Project Number: [none]

Reported: 08/21/14 16:15

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (AH41320-BLK1)					Prepared: 08/13/14 Analyzed: 08/20/14
Acenaphthene	ND	0.020	0.062	mg/kg	J
Acenaphthylene	ND	0.020	0.062	"	Ţ
Anthracene	ND	0.010	0.062	"	Ţ
Benzidine	ND	0.50	1.6	"	Ţ
Benzo (a) anthracene	ND	0.020	0.33	"	Ţ
Benzo (a) pyrene	ND	0.030	0.062	"	Ţ
Benzo (b) fluoranthene	ND	0.030	0.062	"	J
Benzo (g,h,i) perylene	ND	0.030	0.062	"	Ţ
Benzo (k) fluoranthene	ND	0.050	0.062	"	Ţ
Benzoic acid	ND	0.60	1.6	"	J
Benzyl alcohol	ND	0.20	0.66	"	Ţ
Bis(2-chloroethoxy)methane	ND	0.20	0.33	"	J
Bis(2-chloroethyl)ether	ND	0.20	0.33	"	J
Bis(2-chloroisopropyl)ether	ND	0.20	0.33	"	Ţ
Bis(2-ethylhexyl)phthalate	ND	0.090	0.33	"	J
4-Bromophenyl phenyl ether	ND	0.20	0.33	"	J
Butyl benzyl phthalate	ND	0.20	0.33	"	Ţ
4-Chloro-3-methylphenol	ND	0.20	0.33	"	Ţ
4-Chloroaniline	ND	0.20	0.66	"	J
2-Chloronaphthalene	ND	0.20	0.33	"	J
2-Chlorophenol	ND	0.20	0.33	"	Ţ
4-Chlorophenyl phenyl ether	ND	0.20	0.33	"	J
Chrysene	ND	0.030	0.062	"	J
Di-n-butyl phthalate	ND	0.20	0.33	"	Ţ
Di-n-octyl phthalate	ND	0.20	0.33	"	J
Dibenz (a,h) anthracene	ND	0.020	0.062	"	J
Dibenzofuran	ND	0.10	0.33	"	Ţ
1,2-Dichlorobenzene	ND	0.20	0.33	"	J
1,3-Dichlorobenzene	ND	0.20	0.33	"	J
1,4-Dichlorobenzene	ND	0.20	0.33	"	J
3,3'-Dichlorobenzidine	ND	0.50	0.66	"	J



Result

e-mail: clientservices@alpha-labs.com

%REC

Limits

RPD

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309 Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment Plant

Project Manager: Erich Delmas

Units

Tracy CA, 95304

Analyte

Project: WWTP Sludge Drying Beds

Spike

Level

Reported: 08/21/14 16:15

Notes

RPD

Limit

3900 Holly Drive

Project Number: [none]

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Source

Result

%REC

Alpha Analytical Laboratories, Inc.

Reporting

Limit

MDL

Blank (AH41320-BLK1)					Prepared: 08/13/14 Analyzed: 08/20/14	
2,4-Dichlorophenol	ND	0.20	0.33	mg/kg		
Diethyl phthalate	ND	0.10	0.33	"		
Dimethyl phthalate	ND	0.20	0.33	"		
2,4-Dimethylphenol	ND	0.20	0.33	"		
4,6-Dinitro-2-methylphenol	ND	0.30	1.6	"		
2,4-Dinitrophenol	ND	0.20	1.6	"		
2,4-Dinitrotoluene	ND	0.10	0.33	"		
2,6-Dinitrotoluene	ND	0.20	0.33	"		
1,2-Diphenylhydrazine	ND	0.20	0.33	"		
Fluoranthene	ND	0.030	0.062	"		
Fluorene	ND	0.020	0.062	"		
Hexachlorobenzene	ND	0.10	0.33	"		
Hexachlorobutadiene	ND	0.20	0.33	"		
Hexachlorocyclopentadiene	ND	0.20	1.6	"		
Hexachloroethane	ND	0.20	0.33	"		
Indeno (1,2,3-cd) pyrene	ND	0.020	0.062	"		
Isophorone	ND	0.20	0.33	"		
2-Methylnaphthalene	ND	0.020	0.062	"		
2-Methylphenol (o-cresol)	ND	0.20	0.33	"		
3 & 4-Methylphenol (m,p-cresol)	ND	0.20	0.33	"		
N-Nitrosodi-n-propylamine	ND	0.20	0.33	"		
N-Nitrosodimethylamine	ND	0.30	0.66	"		
N-Nitrosodiphenylamine	ND	0.20	0.33	"		
Naphthalene	ND	0.020	0.062	"		
2-Nitroaniline	ND	0.20	1.6	"		
3-Nitroaniline	ND	0.30	1.6	"		
4-Nitroaniline	ND	0.20	1.6	"		
Nitrobenzene	ND	0.20	0.33	"		
2-Nitrophenol	ND	0.30	1.6	"		
4-Nitrophenol	ND	0.30	1.6	"		
Pentachlorophenol	ND	0.20	1.6	"		



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309 Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment Plant Project Manager: Erich Delmas

Tracy CA, 95304 Project: WWTP Sludge Drying Beds Reported: 3900 Holly Drive Project Number: [none] 08/21/14 16:15

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AH41320 - EPA 3540C So:	xhlet MS										
Blank (AH41320-BLK1)					Prepared: (08/13/14 Aı	nalyzed: 08	/20/14			
Phenanthrene	ND	0.030	0.062	mg/kg	•						
Phenol	ND	0.20	0.33	"							
Pyrene	ND	0.030	0.062	"							
1,2,4-Trichlorobenzene	ND	0.20	0.33	"							
2,4,5-Trichlorophenol	ND	0.20	0.33	"							
2,4,6-Trichlorophenol	ND	0.20	0.33	"							
Surrogate: 2-Fluorobiphenyl	2.97			"	4.00		74.3	61-117			
Surrogate: 2-Fluorophenol	2.69			"	4.00		67.2	50-113			
Surrogate: Nitrobenzene-d5	2.79			"	4.00		69.8	47-123			
Surrogate: p-Terphenyl-d14	3.15			"	4.00		78.8	63-133			
Surrogate: Phenol-d6	2.67			"	4.00		66.7	49-119			
Surrogate: 2,4,6-Tribromophenol	3.51			"	4.00		87.7	52-129			
LCS (AH41320-BS1)					Prepared: (08/13/14 Aı	nalyzed: 08	/20/14			
Acenaphthene	1.30	0.020	0.062	mg/kg	2.00		65.0	35-90			
4-Chloro-3-methylphenol	2.95	0.20	0.33	"	4.00		73.6	55-105			
2-Chlorophenol	2.81	0.20	0.33	"	4.00		70.2	55-100			
1,4-Dichlorobenzene	1.37	0.20	0.33	"	2.00		68.6	55-100			
2,4-Dinitrotoluene	1.38	0.10	0.33	"	2.00		69.1	65-100			
N-Nitrosodi-n-propylamine	1.11	0.20	0.33	"	2.00		55.7	45-80			
4-Nitrophenol	3.06	0.30	1.6	"	4.00		76.6	60-110			
Pentachlorophenol	3.84	0.20	1.6	"	4.00		96.0	42-125			
Phenol	2.72	0.20	0.33	"	4.00		67.9	54-95			
Pyrene	1.37	0.030	0.062	"	2.00		68.7	50-100			
1,2,4-Trichlorobenzene	1.38	0.20	0.33	"	2.00		69.0	55-95			
Surrogate: 2-Fluorobiphenyl	3.36			"	4.00		84.0	61-117			
Surrogate: 2-Fluorophenol	3.16			"	4.00		78.9	50-113			
Surrogate: Nitrobenzene-d5	3.21			"	4.00		80.3	47-123			
Surrogate: p-Terphenyl-d14	3.44			"	4.00		85.9	63-133			
Surrogate: Phenol-d6	3.04			"	4.00		76.0	49-119			
Surrogate: 2,4,6-Tribromophenol	4.07			"	4.00		102	52-129			



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309 Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment Plant Project Manager: Erich Delmas

Project: WWTP Sludge Drying Beds

Reported: Tracy CA, 95304 3900 Holly Drive Project Number: [none] 08/21/14 16:15

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Alpha Analytical Laboratories, Inc.

		1	Anaiyu								
Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AH41320 - EPA 3540C Sox	thlet MS										
LCS Dup (AH41320-BSD1)					Prepared: (08/13/14 A ₁	nalyzed: 08	3/20/14			
Acenaphthene	1.43	0.020	0.062	mg/kg	2.00		71.6	35-90	9.52	25	
4-Chloro-3-methylphenol	3.29	0.20	0.33	"	4.00		82.2	55-105	11.0	25	
2-Chlorophenol	3.16	0.20	0.33	"	4.00		79.1	55-100	11.9	25	
1,4-Dichlorobenzene	1.56	0.20	0.33	"	2.00		77.8	55-100	12.6	25	
2,4-Dinitrotoluene	1.54	0.10	0.33	"	2.00		76.8	65-100	10.6	25	
N-Nitrosodi-n-propylamine	1.26	0.20	0.33	"	2.00		63.1	45-80	12.5	25	
4-Nitrophenol	3.40	0.30	1.6	"	4.00		85.0	60-110	10.4	25	
Pentachlorophenol	4.16	0.20	1.6	"	4.00		104	42-125	7.96	25	
Phenol	3.00	0.20	0.33	"	4.00		75.0	54-95	10.0	25	
Pyrene	1.44	0.030	0.062	"	2.00		72.1	50-100	4.83	25	
1,2,4-Trichlorobenzene	1.55	0.20	0.33	"	2.00		77.6	55-95	11.8	25	
Surrogate: 2-Fluorobiphenyl	3.45			"	4.00		86.2	61-117			
Surrogate: 2-Fluorophenol	3.33			"	4.00		83.2	50-113			
Surrogate: Nitrobenzene-d5	3.32			"	4.00		83.1	47-123			
Surrogate: p-Terphenyl-d14	3.41			"	4.00		85.3	63-133			
Surrogate: Phenol-d6	3.12			"	4.00		78.0	49-119			
Surrogate: 2,4,6-Tribromophenol	4.07			"	4.00		102	52-129			
Matrix Spike (AH41320-MS1)		Source:	14H0430-01	l	Prepared: (08/13/14 Aı	nalyzed: 08	3/20/14			QM-0
Acenaphthene	1.65	1.0	3.1	mg/kg	2.00	ND	82.5	35-90			
4-Chloro-3-methylphenol	ND	10	16	"	4.00	ND		55-105			
2-Chlorophenol	ND	10	16	"	4.00	ND		55-100			
1,4-Dichlorobenzene	ND	10	16	"	2.00	ND		55-100			
2,4-Dinitrotoluene	ND	5.0	16	"	2.00	ND		65-100			
N-Nitrosodi-n-propylamine	ND	10	16	"	2.00	ND		45-80			
4-Nitrophenol	ND	15	80	"	4.00	ND		60-110			
Pentachlorophenol	16.2	10	80	"	4.00	ND	404	60-115			
Phenol	ND	10	16	"	4.00	ND		55-100			
Pyrene	1.65	1.5	3.1	"	2.00	ND	82.5	50-100			
1,2,4-Trichlorobenzene	ND	10	16	"	2.00	ND		55-95			
Surrogate: 2-Fluorobiphenyl	3.70			"	4.00		92.5	61-117			
	3.70						, 2.0	Q. 11/			



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309 Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment Plant

Project Manager: Erich Delmas

Tracy CA, 95304 3900 Holly Drive Project: WWTP Sludge Drying Beds

Project Number: [none]

Reported: 08/21/14 16:15

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Matrix Spike (AH41320-MS1)		Source: 14	H0430-01	1	Prepared: 0	08/13/14 A		QM-05		
Surrogate: 2-Fluorophenol	3.55			mg/kg	4.00		88.8	50-113		
Surrogate: Nitrobenzene-d5	3.60			"	4.00		90.0	47-123		
Surrogate: p-Terphenyl-d14	3.60			"	4.00		90.0	63-133		
Surrogate: Phenol-d6	3.50			"	4.00		87.5	49-119		
Surrogate: 2,4,6-Tribromophenol	4.10			"	4.00		102	52-129		
Matrix Spike Dup (AH41320-MSD1)	Source: 14	H0430-01	1	Prepared: 0	08/13/14 A	nalyzed: 08	3/20/14		QM-05	
Acenaphthene	1.55	1.0	3.1	mg/kg	2.00	ND	77.5	35-90	25	J
4-Chloro-3-methylphenol	ND	10	16	"	4.00	ND		55-105	25	U
2-Chlorophenol	ND	10	16	"	4.00	ND		55-100	25	U
1,4-Dichlorobenzene	ND	10	16	"	2.00	ND		55-100	25	U
2,4-Dinitrotoluene	ND	5.0	16	"	2.00	ND		65-100	25	U
N-Nitrosodi-n-propylamine	ND	10	16	"	2.00	ND		45-80	25	U
4-Nitrophenol	ND	15	80	"	4.00	ND		60-110	25	U
Pentachlorophenol	16.4	10	80	"	4.00	ND	409	60-115	25	J
Phenol	ND	10	16	"	4.00	ND		55-100	25	U
Pyrene	1.70	1.5	3.1	"	2.00	ND	85.0	50-100	25	J
1,2,4-Trichlorobenzene	ND	10	16	"	2.00	ND		55-95	25	U
Surrogate: 2-Fluorobiphenyl	3.80			"	4.00		95.0	61-117		
Surrogate: 2-Fluorophenol	3.40			"	4.00		85.0	50-113		
Surrogate: Nitrobenzene-d5	3.65			"	4.00		91.2	47-123		
Surrogate: p-Terphenyl-d14	3.90			"	4.00		97.5	63-133		
Surrogate: Phenol-d6	3.40			"	4.00		85.0	49-119		
Surrogate: 2,4,6-Tribromophenol	4.70			"	4.00		118	52-129		



e-mail: clientservices@alpha-labs.com

%REC

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309 Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Tracy, City of - Water Treatment Plant

Project Manager: Erich Delmas

Tracy CA, 95304 3900 Holly Drive Project: WWTP Sludge Drying Beds

Spike

Source

Project Number: [none]

Reporting

Reported: 08/21/14 16:15

RPD

Additional Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Alpha Analytical Laboratories, Inc.

			recporting		Брис	Bource		/ OICE C		ICI D								
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes							
Batch AH41320 - EPA 3540C Sox	xhlet MS																	
Blank (AH41320-BLK1)					Prepared: (08/13/14 A	nalyzed: 08	/20/14										
Pyridine	ND	150	500	mg/kg														
Surrogate: 2-Fluorobiphenyl	2.97			"	4.00		74.3	61-117										
Surrogate: 2-Fluorophenol	2.69			"	4.00		67.2	50-113										
Surrogate: Nitrobenzene-d5	2.79			"	4.00		69.8	47-123										
Surrogate: p-Terphenyl-d14	3.15			"	4.00		78.8	63-133										
Surrogate: Phenol-d6	2.67			"	4.00		66.7	49-119										
Surrogate: 2,4,6-Tribromophenol	3.51			"	4.00		87.7	52-129										
LCS (AH41320-BS1)					Prepared: (08/13/14 A	nalyzed: 08	/20/14										
Surrogate: 2-Fluorobiphenyl	3.36			mg/kg	4.00		84.0	61-117										
Surrogate: 2-Fluorophenol	3.16			"	4.00		78.9	50-113										
Surrogate: Nitrobenzene-d5	3.21			"	4.00		80.3	47-123										
Surrogate: p-Terphenyl-d14	3.44			"	4.00		85.9	63-133										
Surrogate: Phenol-d6	3.04			"	4.00		76.0	49-119										
Surrogate: 2,4,6-Tribromophenol	4.07			"	4.00		102	52-129										
LCS Dup (AH41320-BSD1)					Prepared: 08/13/14 Analyzed: 08/20/14													
Surrogate: 2-Fluorobiphenyl	3.45			mg/kg	4.00		86.2	61-117										
Surrogate: 2-Fluorophenol	3.33			"	4.00		83.2	50-113										
Surrogate: Nitrobenzene-d5	3.32			"	4.00		83.1	47-123										
Surrogate: p-Terphenyl-d14	3.41			"	4.00		85.3	63-133										
Surrogate: Phenol-d6	3.12			"	4.00		78.0	49-119										
Surrogate: 2,4,6-Tribromophenol	4.07			"	4.00		102	52-129										



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309
Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

l	Tracy, City of - Water Treatment Plant	Project Manager: Erich Delmas	
I	Tracy CA, 95304	Project: WWTP Sludge Drying Beds	Reported:
I	3900 Holly Drive	Project Number: [none]	08/21/14 16:15

Notes and Definitions

>	> 16000000
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
QM-04	High RPD and/or poor percent recovery may reflect sample non-homogeneity.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
R-06	The Reporting Limits for this analysis have been raised to account for matrix interference.
R-11	All samples and QC in the batch were analyzed to meet high-level reporting limits.
S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interferences.
U	Analyte included in analysis, but not detected at or above MDL.
DET	Analyte DETECTED
MDL	Method Detection Limit
ML	Minimum Level. The concentration equivalent to the lowest calibration standard, if all method specified weights, volumes, and processing steps have been followed.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RL	Reporting Limit
RPD	Relative Percent Difference



Laboratory & Corporate:

Service Center

& Micro Lab:

208 Mason Street, Uklah, CA 95482 707-468-0401 Fax: 707-468-5267

925-828-6226 Fax: 925-828-6309

6398 Dougherty Rd, Ste 35, Dublin, CA 94568

Chain of Custody Record

Reports and Invoices will be delivered by email in .pdf format.

l ob No	1440430	-	_	
Lab No.	1 イナリルンレー	Page	οf	

Report to:	Invoice t	to (if different): Project Info for Report:									Signature below authorizes work under terms stated on reverse side.																			
Company:	Company:							ject										gillat		0.011	auti	101120	,3 WC	in ui	iuei i					mple
Tracy, City of - WTP								-	VTP	SL	.UD	GE	=		Analyses Requested										TAT	- 1	ு		otes	
Attn:	Attn:		_				1	DRYING BEDS							_									'^'	ſ	TATS		use only)		
Erich Delmas																Ī	1	7	Г	Т	Π	Т		T	П	10 day	vs	동		perature:
Address:	Address:						Pro	ject	No:						6010			as N	Ιí	ĺ	ľ		ĺ				" I	For Rush	-	_
3900 Holly Drive	1						ĺ	(NONE)						8			ä	l			l		1.5			- 1	ĕ	4	λT	
Tracy, CA 95304 Phone/Fax:		one/Fax:								ß	Ė	0	- 7740	틸	B's					1	6	RUSH	<u>1:</u>	pe.						
	Phone/Fax:						PO/Reference :					ine	þ, Z	6010	-	TKN, Ammonia	PCB's	ĺ				□	퉏	5 day	s	悥	d	eg. C		
209.831.4488 / 209.831.4484	 				Refe						ntai	ᅙ	Ţ	Se	₹.	-త			ĺ		ĮΞ	ᅙ			§.	Shi	pment			
Email Address: erichd@cf.tracy.ca.us	Email Addre	III Address:				{N	ION	Ε}			Ö	ΪŹ	<u>[</u>	7471,	Ϋ́	des		يوا		Ī	eca	2	48 hou	rs	val	Mε	ethod:			
	<u> </u>		0.	ontair			D-4				8.7	- 4		of	٤	(Total	74	-	Ęį	i	≝		ď/	¥	털			ğ		
Samplers Signature:				ontall	ier:		FIE	ser	vauv	/e:	IVI	atri	X:	:Total Number of Containers	K, Mo, Ni, Pb, Zn	C	ĝ	as N,	8081/8082 Pesticides		8270 SVOC full list	e	percent solids / pH	- Total/Fecal Hi Dilution	include j-flag MDL reporting	Other	: [Lab Approval Required		
Cles of Store			ı		_	ا۔ا					ı			핕	¥	Phosphorus	- 7060, Hg	ဗ္ဗ	2	8260 VOC's	ဗ္ဗ	8270 Pyridine	<u> </u>	<u> </u>	목	_	ays	Ē		dy Seals:
Print: trich / letmas			<u></u> ≼		i i	ır ja	! !						}	ź	ير	년	90,	ž	808	Š	S	3	Ë	Ĕ	뎙	\circ	- [- 1	Y	/ N
Sample	Sam	pled:	Ž	គ្គ	[광	Se	١.١	واج	รู รู	ہ ا	ង		=	ota	Cd, Cr, Cu,	Sol		BOD, NO3	81/	9	2	20	5	Coliform	칒		Sam	ple	Notes o	or
Identification	Date	Time	40ml VOA	Poly	4oz clear jar	8oz clear ja	뭐	ENG3	HZSC4	S e	Water	Soil	Other	Ė.	ŏ	直	As	ĕ	80	82	82	82	g	ပိ	Ĭ.Ĕ				e Num	
COMPOSITE DRYING BEDS	8/6/2	1104				х				x	1	x	$\overline{}$	4	х	х	х	x	х	х	х	x	х		×	-				
S3 5	6/14	1118			х				Ť	x		×		1										х						
S4 . §	1/2/14	1106		1	x					x	T	×		1										х						
S5 <u>2</u>	1/6/14	1105			x				T	x	T	x		1									_	x					_	
S6 &	2/4/14	1102			х					x	T	×		1		1							_	x	1	_				
N4 8	BEIN	1118			x					х		x		1			П		-					х						$\neg \neg$
N5	2/4/14	ハハつ			х					x	Γ	×		1										x						
N6 .9	16/14	1116			x					×		x		1			П							х				_		
																		ĺ												
Relinquished by:		Received	by:				•							Date	:		Time:		CDF	H V	/rite	On	EDI	Re	port?			$\overline{\gamma}$	es 📗	No
Cul Som			W) -								9	2/	6/	121	١	220		State						P 0.0.	•			•	
(M)		11:0	4										K	le-	ul	7	91							the S	Source	e Number	(s) in	the c	a	bove ·
Won		Left 1	110	ZI			_		_				۲	-14	1	2	445							_	ort?			\overline{Y}		No
<i></i>		4 20		<u>-</u>								0	-u	<u> </u>		<u> </u>			Giobal					•		Sampling Con		_	_	·
													L			Ĺ			EDF to		il Addr	ess):			_			,		[
																T	Travel	and Si	te Tim	e:	Ī	Mileag	e:	N	Aisc. Su	oplies:				
																		1										_		